



# **Analytical Laboratory**

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

## **Order Summary Report**

Order Number:	J12090038						
Project Name:	NPDES - MONTHLY						
Customer Name(s):	Matthew Dorn, Mark Harpe	Matthew Dorn, Mark Harper, Todd Spade, Tara Thomas, Matthew Hoyt					
Customer Address:	11021 BROWER RD.						
	NORTH BEND, OH 45052						
Lab Contact:	Therona T James	Phone:	980-875-4795				
Report Authorized By: (Signature)		Date	e:	9/19/2012			

### **Program Comments:**

Miami Fort NPDES - Monthly

### **Data Flags & Calculations:**

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

### Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

### Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

The results in this report meet NELAP requirements through New York State Department of Health Certification # 11717.. Certified parameters are designated with an "N" in the analytical report.

# **Sample ID's & Descriptions:**

Collection Sample ID Plant/Station Date and Tim		Collection Date and Time	Collected By	Sample Description
2012019079	MIAMI-FORT	04-Sep-12 9:30 AM	Mark Harper	OUTFALL 002
2012019080	MIAMI-FORT	04-Sep-12 8:45 AM	Mark Harper	OUTFALL 608
2 Total Samples				

# **Technical Validation Review**

## Checklist:

	COC and .pdf report are in agreement with sample and analyses (compliance programs and procedure	<b>✓</b> Yes	☐ No	
	All Results are less than the laboratory reporting lin	Yes	<b>✓</b> No	
	All laboratory QA/QC requirements are acceptable.	✓ Yes	☐ No	
Report S	Sections Included:			
<b>✓</b> Jo	ob Summary Report	☐ Sub-cont	racted Laborate	ory Results
✓ S	ample Identification	☐ Custome	Specific Data	Sheets, Reports, & Documentation
✓ Te	echnical Validation of Data Package	☐ Custome	Database Ent	ries
✓ A	nalytical Laboratory Certificate of Analysis	✓ Chain of	Custody	
□ A	nalytical Laboratory QC Report	☐ Electronic	Data Delivera	able (EDD) Sent Separately

Reviewed By: Mary Ann Ogle Date: 9/19/2012

## **Certificate of Laboratory Analysis**

This report shall not be reproduced, except in full.

## Order # J12090038

Site: OUTFALL 002 Sample #: 2012019079

Collection Date: 04-Sep-12 9:30 AM Matrix: NPDES

Analyte Result Units Qualifiers RDL DF Method **Analysis Date/Time Analyst TOTAL DISSOLVED SOLIDS** TDS 1100 mg/L Ν 10 1 SM2540C 9/6/2012 2:40:00 PN TJA7067

Site: OUTFALL 608 Sample #: 2012019080

Collection Date: 04-Sep-12 8:45 AM Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
ALKALINITY (FIXED END POINT 4.	<u>5)</u>							
Alkalinity (mg/L CaCO3)	1200	mg/L (CaCO3)	N	0.1	1	SM2320B	9/13/2012 7:48:00 A	TJA7067
INORGANIC IONS BY IC								
Chloride	6600	mg/L	N	100	1000	EPA 300.0	9/10/2012 9:07:00 A	JAHERMA
Fluoride	8.6	mg/L	N	5	50	EPA 300.0	9/10/2012 9:07:00 A	JAHERMA
Sulfate	6400	mg/L	N	100	1000	EPA 300.0	9/10/2012 9:07:00 A	JAHERMA
TOTAL METALS BY ICP								
Boron (B)	313	mg/L	N	0.5	10	EPA 200.7	9/14/2012 12:02:00 F	DJSULL1
Iron (Fe)	< 0.01	mg/L	N	0.01	1	EPA 200.7	9/14/2012 12:02:00 F	DJSULL1
Manganese (Mn)	0.248	mg/L	N	0.005	1	EPA 200.7	9/14/2012 12:02:00 F	DJSULL1
TOTAL RECOVERABLE METALS B	BY ICP-MS							
Arsenic (As)	< 20	ug/L	N	20	1	EPA 200.8	9/7/2012 2:16:00 PN	KRICHAR
Barium (Ba)	176	ug/L	N	20	1	EPA 200.8	9/7/2012 2:16:00 PN	KRICHAR
Cadmium (Cd)	< 20	ug/L	N	20	1	EPA 200.8	9/7/2012 2:16:00 PN	KRICHAR
Chromium (Cr)	< 20	ug/L	N	20	1	EPA 200.8	9/7/2012 2:16:00 PN	KRICHAR
Copper (Cu)	< 20	ug/L	N	20	1	EPA 200.8	9/7/2012 2:16:00 PN	KRICHAR
Lead (Pb)	< 20	ug/L	N	20	1	EPA 200.8	9/7/2012 2:16:00 PN	KRICHAR
Zinc (Zn)	< 20	ug/L	N	20	1	EPA 200.8	9/7/2012 2:16:00 PN	KRICHAR
TOTAL DISSOLVED SOLIDS								
TDS	27000	mg/L	N	10	1	SM2540C	9/6/2012 2:40:00 PN	TJA7067
TOTAL SUSPENDED SOLIDS								
TSS	27	mg/L	N	5	1	SM2540D	9/7/2012 11:05:00 A	TJA7067

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM **Analytical Laboratory Use Only Duke Energy Analytical Laboratory** Analytical Lab Duke Energy<sub>ss</sub> Sample Class NPDES 19Page \_\_1\_ of \_1\_\_ Page 5 of 5 OHIO DISTRIBUTION Originating Mail Code MGO3A2 (Building 7405) ORIGINAL to LAB 13339 Hagers Ferry Rd **COPY to CLIENT** Huntersville, N. C. 28078 (704) 875-5245 SAMPLE PROGRAM **NPDES** MIAMI-FORT NPDES Monthly (Week 1- September 4, 2012) Cooler Temp (C) PO# 15 Preserv.:1=HCL 4)Fax No: 2=H2SO4 3=HNO3 Miami-Fort - Tara Thomas, Matt Hoyt 4=lce\_5=None 4 3 MR# 7)Resp. Center To: , Fe, Mn, As, Ba, d, Cr, Cu, Pb, Zn 5)Business Unit: 10)Mail Code: 9)Activity ID: 8)Project ID: Customer to complete all appropriate non-shaded areas. Alkalinity CI, F, SO4 <sup>14</sup>Collection Information 18 Grab LAB USE ONLY B, F 12Chem TDS TSS <sup>13</sup>Sample Description or ID Desktop No. "Lab ID X 2012019079 Outfall 002 X 1 1 1 Outfall 608 2012019080 Customer to sign & date below - fill out from left to right. <sup>22</sup>Requested Turnaround Customer, Please indicate d \* Add. Cost Will Apply 12)Seal/Lock Opened By 11)Seal/Locked By ICP TOT - B, Fe, Mn IMS-TRM - As , Ba, Cd, Cr, Cu, Pb, Zn Fe HACH = 0.05